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## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference WJ504554-142	<b>FOR FURTHER ACTION</b>		See Form PCT/IPEA/416
International application No. PCT/NZ2004/000236	International filing date ( <i>day/month/year</i> ) 29 September 2004	Priority date ( <i>day/month/year</i> ) 29 September 2003	
International Patent Classification (IPC) or national classification and IPC <b>Int. Cl.</b> <sup>7</sup> H01F 38/14, H02J 17/00			
Applicant AUCKLAND UNISERVICES LIMITED et al			

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 4 sheets, including this cover sheet.

3. This report is also accompanied by ANNEXES, comprising:

a.  (*sent to the applicant and to the International Bureau*) a total of    sheets, as follows:

sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).

sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.

b.  (*sent to the International Bureau only*) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or table related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

<input checked="" type="checkbox"/> Box No. I	Basis of the report
<input type="checkbox"/> Box No. II	Priority
<input type="checkbox"/> Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/> Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/> Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/> Box No. VI	Certain documents cited
<input type="checkbox"/> Box No. VII	Certain defects in the international application
<input checked="" type="checkbox"/> Box No. VIII	Certain observations on the international application

Date of submission of the demand 29 April 2005	Date of completion of the report 8 September 2005
Name and mailing address of the IPEA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaaustralia.gov.au Facsimile No. (02) 6285 3929	Authorized Officer <b>BAYER MITROVIC</b> Telephone No. (02) 6283 2164

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/NZ2004/000236

## Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:

international search (under Rules 12.3 and 23.1 (b))

publication of the international application (under Rule 12.4)

international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on (*replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report*):

the international application as originally filed/furnished

the description:

pages as originally filed/furnished

pages\* received by this Authority on with the letter of

pages\* received by this Authority on with the letter of

the claims:

pages as originally filed/furnished

pages\* as amended (together with any statement) under Article 19

pages\* received by this Authority on with the letter of

pages\* received by this Authority on with the letter of

the drawings:

pages as originally filed/furnished

pages\* received by this Authority on with the letter of

pages\* received by this Authority on with the letter of

a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.

3.  The amendments have resulted in the cancellation of:

the description, pages

the claims, Nos.

the drawings, sheets/figs

the sequence listing (*specify*):

any table(s) related to the sequence listing (*specify*):

4.  This report has been established as if (some of) the amendments annexed to this report and listed below had not been made; since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

the description, pages

the claims, Nos.

the drawings, sheets/figs

the sequence listing (*specify*):

any table(s) related to the sequence listing (*specify*):

\* If item 4 applies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

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**Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

**1. Statement**

Novelty (N)	Claims 1-52	YES
	Claims	NO
Inventive step (IS)	Claims 1-52	YES
	Claims	NO
Industrial applicability (IA)	Claims 1-52	YES
	Claims	NO

**2. Citations and explanations (Rule 70.7)****Citations:**

D1: Derwent Abstract Accession No.2001-263115/27, Class W02, JP 2001053657

D2: Derwent Abstract Accession No. 2001-593539/67, Class P32;T07, JP 2001231811

D3: Derwent Abstract Accession No. 2001-608525/70, Class T04, JP 2001067449

D4: Derwent Abstract Accession No. 2002-371439/40, Class U24, WO 2002/007173

D5: US 6047535, D6: US 4953123, D7: US 6477425, D8: US 6091779

D9: Derwent Abstract Accession No. 98-336165/30, FR 2756953

D10: EP 886232, D11: US 6345203

D12: Derwent Abstract Accession No. 2000-151726/14, Class T04, JP 2000011105

Documents D1-D5 disclose non-contact/wireless transmission and/or electromagnetic induction coupling apparatuses, which uses electromagnetic field/wave to transfer electric power/electric energy and data/signal between the transmitter/primary and receiver/secondary remote from each other or separated by the gap. Data is frequency modulated onto the carrier. After demodulation electric power of the carrier wave is converted to act as a power supply. There is no disclosure that demodulated data is used or that can be used for control. Remaining documents D6 –D12 disclose similar configurations for non-contact transmission of power and data, but they don't use frequency modulation of data onto the carrier.

**CLAIMS 1-52 – NOVELTY AND INVENTIVE STEP**

All claims are novel because none of the documents discloses all feature of each claim. Therefore the subject matter of these claims is new and meets the requirements of Article 33(2) PCT with regard to novelty.

The claimed invention is not obvious in the light of any of the cited documents nor is it disclosed in any obvious combination of them. It is also considered that it would not be obvious to a person skilled in the art in the light of common general knowledge either by itself or in combination with any of these documents. Therefore the subject matter of these claims is not obvious and meets the requirements of Article 33(3) PCT with regard to inventive step.

**CLAIMS 1-52 – INDUSTRIAL APPLICABILITY**

Invention defined in claims 1-52 is industrially applicable.

**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**

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**Box No. VIII Certain observations on the international application**

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claims 28 and 30 are not fully supported by the description because they omit the feature of IPT (inductive power transfer). This feature is present in all other independent claims (1, 14, 26, 32, 36, 37 and 52) and the specification read as whole also suggest that IPT is feature of the invention.